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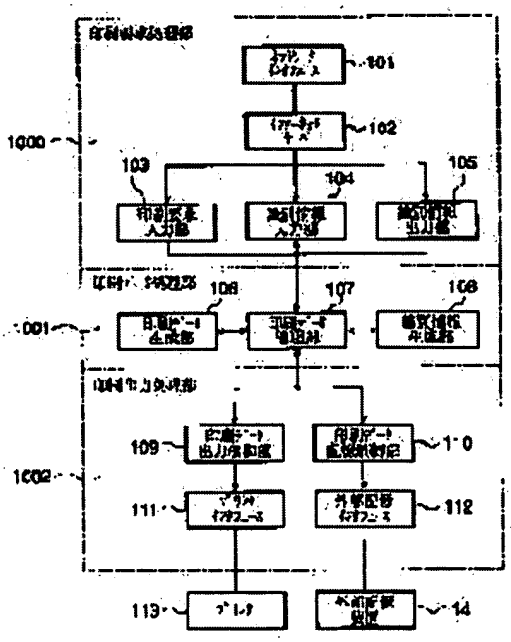
(54) PRINTING CONTROL METHOD AND PRINTING CONTROLLER

(57)Abstract:

PROBLEM TO BE SOLVED: To enable a user who desires to print printing data or a user who is allowed to print the printing data by the user.

SOLUTION: In a print server device which executes a printing based on the printing data from the user, a request to print the printing data from the user is inputted through a network, and identification information of the printing data is generated by an identification information generation part 108. The generated identification information is imparted to the user through an identification information output part 105, and the printing data and the identification information corresponding to the printing data are made correspond to each other and stored in an external storage device 114. When the identification information is inputted through the network, it is judged whether or not the inputted identification information is matched with the identification information stored in the external storage device 114, and when it is judged that they are matched with each other, the printing data corresponding to the identification information are read from the external storage device 114 and printed by a printer 113.



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* NOTICES *

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2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]
[Claim 1] An identification information generation means to be the print control unit to control as printed based on the print data from a user, and to generate the identification information of said print data based on the printing demand of the print data from said user, A notice means to notify said user of said identification information generated by said identification information generation means, A storage means to associate and memorize said print data and the identification information corresponding to the print data concerned, A distinction means to distinguish whether the identification information inputted by identification information input means to input identification information, and said identification information input means is in agreement with the identification information memorized by said storage means, The print control unit characterized by having the control means controlled to read the print data corresponding to said identification information from said storage means, and to print them when in agreement [with said distinction means] and it is distinguished.
[Claim 2] Said notice means is a print control unit according to claim 1 characterized by notifying said identification information according to a URI format.
[Claim 3] Said notice means is a print control unit according to claim 1 or 2 characterized by what said user is further notified of in the format which enciphered said identification information.
[Claim 4] Said notice means is a print control unit according to claim 1 characterized by notifying said identification information to said user using an electronic mail.
[Claim 5] Said identification information is a print control unit according to claim 1 characterized by including the information about the printer driver which said user is using.
[Claim 6] The print data from said user are print control units given in claim 1 characterized by being inputted through a network thru/or any 1 term of 5.
[Claim 7] A storage interface means to be the print control unit to control as printed based on the print data from a user, and to perform reading of the information which equips with a storage and is memorized by the storage concerned, and writing, An identification information generation means to generate the identification information of said print data based on the printing demand of the print data from said user, A means to control to write in a storage said identification information generated by said identification information generation means with said storage interface means, A storage means to associate and memorize said print data and the identification information corresponding to the print data concerned, A distinction means by which input identification information and the inputted identification information distinguishes whether it is in agreement with the identification information memorized by said storage means from said storage interface means, The print control unit characterized by having the control means controlled to read the print data corresponding to said identification information from said storage means, and to print them when in agreement [with said distinction means] and it is distinguished.
[Claim 8] Said storage is a print control unit according to claim 7 characterized by being an IC card.
[Claim 9] Said identification information is a print control unit according to claim 7 characterized by including the information about the printer driver which said user is using.

[Claim 10] The print data from said user are print control units given in claim 7 characterized by being inputted through a network thru/or any 1 term of 9.
[Claim 11] The identification information generation process which is the printing control approach to control as printed based on the print data from a user, and generates the identification information of said print data based on the printing demand of the print data from said user, The notice process which notifies said user of said identification information generated at said identification information generation process, The storage process which associates said print data and the identification information corresponding to the print data concerned, and is memorized in the storage section, The distinction process which distinguishes whether the identification information inputted at the identification information input process of inputting identification information, and said identification information input process is in agreement with the identification information memorized by said storage section, The printing control approach characterized by having the process controlled to read the print data corresponding to said identification information from said storage section, and to print them when in agreement [at said distinction process] and it is distinguished.
[Claim 12] The printing control approach according to claim 11 characterized by notifying said identification information according to a URI format at said notice process.
[Claim 13] The printing control approach according to claim 11 or 12 further characterized by what said user is notified of in the format which enciphered said identification information at said notice process.
[Claim 14] The printing control approach according to claim 11 characterized by notifying said identification information to said user using an electronic mail at said notice process.
[Claim 15] Said identification information is the printing control approach according to claim 11 characterized by including the information about the printer driver which said user is using.
[Claim 16] The print data from said user are the printing control approaches given in claim 11 characterized by being inputted through a network thru/or any 1 term of 15.
[Claim 17] The process which performs reading of the information which is the printing control approach to control as printed based on the print data from a user, equips with a storage and is memorized by the storage concerned, and writing, The identification information generation process which generates the identification information of said print data based on the printing demand of the print data from said user, The process controlled to write in a storage said identification information generated at said identification information generation process, The storage process which associates said print data and the identification information corresponding to the print data concerned, and is memorized in the storage section, The distinction process at which identification information is inputted into and the inputted identification information distinguishes whether it is in agreement with the identification information memorized by said storage section from said storage, The printing control approach characterized by having the control process controlled to read the print data corresponding to said identification information from said storage section, and to print them when in agreement [at said distinction process] and it is distinguished.
[Claim 18] Said storage is the printing control approach according to claim 17 characterized by being an IC card.
[Claim 19] Said identification information is the printing control approach according to claim 17 characterized by including the information about the printer driver which said user is using.
[Claim 20] The print data from said user are the printing control approaches given in claim 17 characterized by being inputted through a network thru/or any 1 term of 19.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1] It is the block diagram showing the configuration of the print server equipment concerning the gestalt 1 of operation of this invention.
[Drawing 2] It is drawing showing an example of the printing demand concerning the gestalten 1 and 2 of this operation.
[Drawing 3] It is drawing showing the example of an output of the identification information concerning the gestalten 1 and 2 of this operation.
[Drawing 4] It is drawing showing the example of an input of the identification information concerning the gestalten 1 and 2 of this operation.
[Drawing 5] It is the flow chart which shows processing of the print server equipment concerning the gestalt 1 of operation of this invention.
[Drawing 6] It is the block diagram showing the configuration of the network printer equipment concerning the gestalt 2 of operation of this invention.
[Drawing 7] It is the flow chart which shows the input process of the print data in the network printer equipment concerning the gestalt 2 of operation of this invention.
[Drawing 8] It is the flow chart which shows the printing processing in the network printer equipment concerning the gestalt 2 of operation of this invention.

[Translation done.]